

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/518,432
Source: PT/10
Date Processed by STIC: 10/13/05

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PCT

RAW SEQUENCE LISTING

DATE: 10/13/2005

PATENT APPLICATION: US/10/518,432

TIME: 14:45:07

Input Set : A:\Sequence Lisitng-ST25.txt
 Output Set: N:\CRF4\10132005\J518432.raw

3 <110> APPLICANT: Massey University
 4 Institute Pasteur
 5 Murray, Alan
 6 Dupont, Christine
 8 <120> TITLE OF INVENTION: Immunogenic poly peptide isolated from *Mycobacterium avium*
 9 subspecies *paratuberculosis* and uses thereof
 11 <130> FILE REFERENCE: P70329US0
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/518,432
 C--> 13 <141> CURRENT FILING DATE: 2004-12-20
 13 <150> PRIOR APPLICATION NUMBER: NZ 519667
 14 <151> PRIOR FILING DATE: 2002-06-19
 16 <160> NUMBER OF SEQ ID NOS: 9
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 235
 22 <212> TYPE: PRT
 23 <213> ORGANISM: *Mycobacterium avium* subspecies *paratuberculosis*
 25 <400> SEQUENCE: 1
 27 Met Gln Thr Arg Arg Arg Leu Ser Ala Val Phe Ala Ser Leu Thr Leu
 28 1 5 10 15
 31 Ala Thr Ala Leu Ile Ala Gly Cys Ser Ser Gly Ser Lys Gln Ser Gly
 32 20 25 30
 35 Ala Pro Leu Pro Asp Pro Thr Ser Leu Val Lys Gln Ser Ala Asp Ala
 36 35 40 45
 39 Thr Lys Asn Val Lys Ser Val His Leu Val Leu Ser Ile Gln Gly Lys
 40 50 55 60
 43 Ile Ser Gly Leu Pro Ile Lys Thr Leu Thr Gly Asp Leu Thr Thr
 44 65 70 75 80
 47 Pro Ala Thr Ala Ala Lys Gly Asn Ala Thr Ile Thr Leu Gly Gly Ser
 48 85 90 95
 51 Asp Ile Asp Ala Asn Phe Val Val Val Asp Gly Thr Leu Tyr Ala Thr
 52 100 105 110
 55 Leu Thr Pro Asn Lys Trp Ser Asp Phe Gly Lys Ala Ser Asp Ile Tyr
 56 115 120 125
 59 Asp Val Ser Val Leu Leu Asn Pro Asp Asn Gly Leu Gly Asn Ala Leu
 60 130 135 140
 63 Ala Asn Phe Ser Asn Ala Lys Ala Glu Gly Arg Glu Thr Ile Asn Gly
 64 145 150 155 160
 67 Gln Ser Thr Ile Arg Ile Ser Gly Asn Val Ser Ala Asp Ala Val Asn
 68 165 170 175
 71 Lys Ile Met Pro Gln Phe Asn Ala Thr Gln Pro Val Pro Ser Thr Val
 72 180 185 190
 75 Trp Val Gln Glu Thr Gly Asp His Gln Leu Val Gln Ala Asn Leu Gln

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76	195	200	205	
79	Lys Ser Ser Gly Asn Ser Val Gln Val Thr Leu Ser Asn Trp Gly Glu			
80	210	215	220	
83	Gln Val Gln Val Thr Lys Pro Pro Val Ser Ser			
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87	<210> SEQ ID NO: 2			
88	<211> LENGTH: 708			
89	<212> TYPE: DNA			
90	<213> ORGANISM: Mycobacterium avium subspecies paratuberculosis			
92	<400> SEQUENCE: 2			
93	atgcagaccc gccgcccgtt atcggccgtt ttgcgcattttc tgaccctcgcc caccgccttg		60	
95	atcgccggct gctcgccggg ctccaaggcag agcggtgcgc cgctgccccga ccccaccagc		120	
97	ctggtaaaggc agtcggccga cgccgaccaag aacgtcaaga gctgtcacct ggtgctcagc		180	
99	atccaggggca agatctccgg gtcgcccattc aagacgctga ccgggtgaccc caccaccacg		240	
101	ccggccaccc cccgcaaggaa acacgcccacg atcaccctgg gctggctcgga catcgacgcc		300	
103	aacttcgtcg tcgtcgacgg caccctgtac gccaccctca ccccaacaacaa gtggagcgac		360	
105	ttcggcaagg cgtccgacat ctacgacgtg tcgggtgtgc tcaaccccgaa caacgggctg		420	
107	ggcaacgcgc tggcgaacctt cagcaacgcac aaggccgagg gccgcgaaac catcaacgg		480	
109	cagagcacga tccggatcag cgggaacgtc tcggccgacg cggtgaaccaa gatcatgccc		540	
111	cagttcaacg ccaccaggcc ggtgccgagc accgtgtggg tccaggagac cggcgaccac		600	
113	cagctggttc aggccaaacctt gcagaagagc tccggaaatt ccgtgcaggt gacgctgtcg		660	
115	aattggggcg agcaggtcca ggtcaccaag ccccccgtga gtcgtga		708	
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121	<213> ORGANISM: Artificial Sequence			
123	<220> FEATURE:			
124	<223> OTHER INFORMATION: Synthesized			
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132	<212> TYPE: DNA			
133	<213> ORGANISM: Artificial Sequence			
135	<220> FEATURE:			
136	<223> OTHER INFORMATION: Synthesized			
138	<400> SEQUENCE: 4			
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144	<212> TYPE: DNA			
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147	<220> FEATURE:			
148	<223> OTHER INFORMATION: Synthesized			
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151	tcgcggact acgggtcc		18	
154	<210> SEQ ID NO: 6			
155	<211> LENGTH: 18			
156	<212> TYPE: DNA			

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157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthesized
162 <400> SEQUENCE: 6
163 tcgaactcgc ccgatccc 18
166 <210> SEQ ID NO: 7
167 <211> LENGTH: 6
168 <212> TYPE: PRT
169 <213> ORGANISM: Mycobacterium avium subspecies paratuberculosis
171 <400> SEQUENCE: 7
173 Leu Ile Ala Gly Cys Ser
174 1 5
177 <210> SEQ ID NO: 8
178 <211> LENGTH: 38
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Synthesized
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189 <210> SEQ ID NO: 9
190 <211> LENGTH: 39
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthesized
197 <400> SEQUENCE: 9
198 ggaaattcca tatgtcacga gtcaccggg ggcttggtg 39

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/518,432

DATE: 10/13/2005

TIME: 14:45:08

Input Set : A:\Sequence Lising-ST25.txt

Output Set: N:\CRF4\10132005\J518432.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date